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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/496,990	02/02/2000	Man Pak Yip	081862.P173	6948	
7:	590 07/22/2005		EXAM	INER	
Thinh V Nguyen			BATES, KEVIN T		
Blakely Sokolo	ff Taylor & Zafman LLP				
12400 Wilshire	Boulevard		ART UNIT	PAPER NUMBER	
7th Floor			2155		
Los Angeles, (CA 90025		DATE MAILED: 07/22/200	07/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/496,990	YIP ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kevin Bates	2155				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statt Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. I.136(a). In no event, however, may a sply within the statutory minimum of thin d will apply and will expire SIX (6) MOI ute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	,			
Status						
1) Responsive to communication(s) filed on 24	January 2005.					
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.					
3) Since this application is in condition for allow	ance except for formal mat	ters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.[). 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-60</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-60</u> is/are rejected.						
7) ☐ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)	4) 🖂 Interview	Summany (PTO-A13)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 2-14-2005.	5) Notice of 6) Other:	Informal Patent Application (PTO-152)				
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Application/Control Number: 09/496,990

Art Unit: 2155

Response to Amendment

This Office Action is in response to a communication made on January 24, 2005.

The Information Disclosure Statement was received on February 14, 2005.

Claims 1-60 are pending in this application.

Claim Objections

Claims 4, 16, 28, 40, and 52 are objected to because of the following informalities: the limitation "the cell rate" goes back to the ECR in claim 1, while there is a different cell rate in claims 3, 15, 27, 39, 51; this is unclear whether there is lack of antecedent basis or it is just unclear which cell rate is being referred to. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Aboul-Magd (6490249).

Regarding claims 1, 13, 25, 37, and 49, Aboul-Magd teaches an apparatus to control connection admission for a connection request in a network (Abstract, lines 1 – 4), the apparatus comprising: a first estimator to estimate an equivalent cell rate (ECR)

Application/Control Number: 09/496,990

Art Unit: 2155

(Column 3, lines 38 - 40; Column 4, lines 56 - 60) based on description of the connection request (Column 1, lines 22 - 29), the description including a booking factor (Column 9, lines 58 - 60; line 64; Column 10, lines 5 - 10; were the ECR/EBR equations use overbooking and underbooking); a second estimator to estimate a measured utilization factor for admitted connections the network using measurement of data streams (Column 3, lines 38 - 40; Column 5, lines 1 - 17) arriving at queues (Column 2, lines 41 - 42) and the booking factor (Column 6, lines 12 - 16; lines 12 - 16

Regarding claims 2, 14, 26, 38, and 50, Aboul-Magd teaches that the descriptor includes a connection descriptor and a QoS descriptor (Column 2, lines 9 – 16).

Regarding claim 3, 15, 27, 39, and 51, Aboul-Magd teaches that the connection descriptor includes: at least one of a cell rate, a transport device speed, a queue depth, a cell loss ratio, and a link capacity (Column 5, lines 65 – 67; Column 6, lines 13 – 16).

Regarding claims 4, 16, 28, 40, and 52, Aboul-Magd teaches that the cell rate is one of a peak cell rate, a sustained cell rate, a maximum burst size, and a minimum cell rate (Column 2, lines 26 – 31).

Regarding claims 5, 17, 29, 41, and 53, Aboul-Magd teaches that the QoS descriptor is one of a constant bit rate, a real-time variable bit rate, a non-real-time variable bit rate, an unspecified bit rate, an available bit rate, and a guaranteed frame rate (Column 2, lines 26 – 31).

Application/Control Number: 09/496,990

Art Unit: 2155

Regarding claims 6, 18, 30, 42, and 54, Aboul-Magd teaches the first estimator comprises: a scale factor generator to provide a scale factor, the scale factor generator comprising a look-up table having entries computed for the QoS descriptor, the entries being indexed by the connection descriptor; and a scaler coupled to the scale factor generator to scale the cell rate corresponding to the QoS using the scale factor, the scaled cell rate corresponding to the estimated ECR (Column 5, lines 47 – 57; where the CAC descriptors are considered map (look-up table) the admission request into one of the bandwidth pool that based handles the needs to the CAC descriptor).

Regarding claims 7, 19, 31, 43, and 55, Aboul-Magd teaches that the look-up table is one of a CBR look-up table and a VBR look-up table, the CBR look-up table corresponding to the CBR, the VBR look-up table corresponding to the VBR (Column 5, lines 47 – 57, where the second case of bandwidth pooling involves mapping the service classes into separate bandwidth pools and that classes are defined on Column 2, lines 26 – 31).

Regarding claims 8, 20, 32, 44, and 56, Aboul-Magd teaches that the CBR lookup table is indexed by a cell rate parameter and the transport device speed, the cell rate parameter being within a range from unity to the PCR (Column 2, lines 26 – 31).

Regarding claims 9, 21, 33, 45, and 57, Aboul-Magd teaches that the scale factor is one of the entries indexed by the cell rate parameter and the transport device speed (Column 5, lines 47 – 49; where the scale factor and mapping depends on classes and the classes depends on the CAC criterion, a scaled/weighted calculation of cell rates and speeds and QoS information).

Art Unit: 2155

Regarding claims 10, 22, 34, 46, and 58, Aboul-Magd teaches that the VBR lookup table is indexed by a first ratio between the queue depth and the MBS and second ratio between the link capacity and the PCR (Column 2, lines 26 – 31).

Regarding claims 11, 23, 35, 45, and 59, Aboul-Magd teaches that the scale factor is a weighted value from entries nearest to an entry corresponding to the first and second ratios when there is no exact match with at least one of the first and second ratios (Column 6, lines 1 – 11, where the CAC criterion classify the connection (Column 5, lines 47 – 49, but there may be more classes being issued to the same bandwidth pool based QoS needs of each the classes).

Regarding claims 12, 24, 36, 48, and 60, Aboul-Magd teaches that the second estimator comprises: a capacity estimator to estimate a minimum resource needed for the admitted connections meeting quality of service requirements within the measurement window; and a measured utilization factor generator coupled to the capacity estimator to generate the measured utilization factor using the estimated minimum resource and measurement parameters (Column 5, lines 1 – 39).

Response to Arguments

Applicant's arguments with respect to claims 1-60 have been considered but are most in view of the new ground(s) of rejection.

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2155

U. S. Patent No. 5359593 issued to Derby, because it discloses estimating the need of the new connection and estimating the measured bandwidth of the system.

- U. S. Patent No. 6608815 issued to Huang, because it discloses making estimations in a call admission system.
- U. S. Patent No. 6625155 issued to Dziong, because it discloses connection admission control, with estimations and calculations.
- U. S. Patent No. 5341366 issued to Soumiya, because it discloses taking traffic descriptors with new requests and making estimations.
- U. S. Patent No. 5815492 issued to Berthaud, because it discloses an estimation, adaption, and admission policies.
- U. S. Patent No. 5872771 issued to Park, because it discloses measuring and estimating information in an admission control system.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Bates whose telephone number is (571) 272-3980. The examiner can normally be reached on 8 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2155

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NB

KB July 15, 2005

SALEH NAJJAH